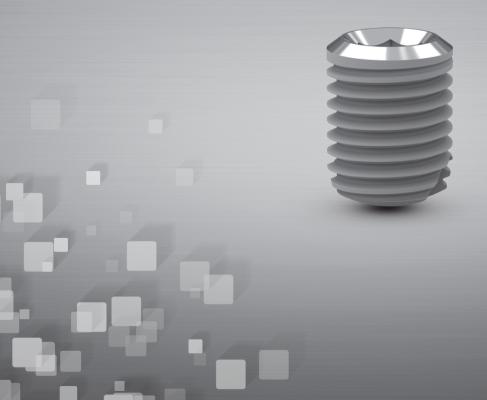


Prosthetic procedure manual





ZINICSHORTY

Prosthetic procedure manual

About this manual

This manual is intended to provide users of ZIACOM® products with an instruction guide for the use of their products. It is not intended to describe methods or procedures for diagnosis, treatment planning or implant localisation, nor to replace or replace regulated training or professional judgement on the needs of individual patients.

The procedures described and illustrated in this manual show an ideal clinical situation for implant rehabilitation and are limited to an example of procedures with a specific platform (RP regular platform). This manual is not intended to cover the wide range of clinical conditions that may occur during implant treatment. The experience and judgement of the professional will prevail over the recommendations made in this or any other ZIACOM® manual.

This manual describes the use of internal hexagonal connection abutment in prosthetic procedures. Consult availability of abutment by platform for each type of internal hexagonal connection implant.

In this manual of prosthodontic procedures, the processes are separated into two distinct types:

- Clinical: corresponds to the procedures performed in the oral cavity by the clinician. These are all those clinical procedures that precede the prosthesis preparation in the laboratory or the required intermediate tests.
- Laboratory: corresponds to the procedures performed by the prosthetist in the laboratory for the prosthesis preparation. The aim of these processes is to obtain a final product for the masticatory function rehabilitation.

RX only: Caution, Federal Law (US) restricts these devices to sale by on the order of a dentist or physician.

All instruments (surgical and prosthetic), surgical boxes and components are supplied WITHOUT STERILIZING. They must be removed from their original package for sterilisation prior to first clinical use. Consult the general cleaning, disinfection and sterilisation recommendations on our website **www.ziacom.es** or in this manual.





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Important information

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Read this carefully before using ZIACOM® products

General information

This document contains basic information about the use of ZIACOM® Dental Implant Systems, henceforth, ZIACOM® products. This document has been written as a quick reference guide for the professional in charge of the treatment, henceforth, "User". It does not provide sufficient indications and technical specifications for the use of ZIACOM® products. It is neither an alternative nor a substitute for specialised training and professional clinical experience.

ZIACOM® products must be used in accordance with proper treatment planning and in strict accordance with the surgical and prosthetic protocols established by the manufacturer. Before using a ZIACOM® product, please read the specific surgical and prosthetic protocols as well as the operating and maintenance instructions carefully. You can consult them on our website www.ziacom.es or request them from your nearest ZIACOM® authorised distributor.

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The user of the product must ensure that the ZIACOM® product used is suitable for the intended procedure and purpose. Neither these instructions for use nor the protocols for working with or handling the products relieve the user of this obligation. The use, handling and clinical application of ZIACOM® products must be carried out by qualified professional personnel with the necessary qualifications according to the current legislation of each country.

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ZIACOM® products are part of an own system, with its design features and working protocols, which include dental implants, abutments and prosthetic components and surgical or prosthetic instruments. The use of ZIACOM® products in combination with elements or components from other manufacturers can lead to treatment failure, serious damage to bone structures, tissue and patient health, as well as undesired cosmetic results. For this reason, only original ZIACOM® products should be used.

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Please consult the ZIACOM® Guarantee Program on our website www.ziacom.es

Warning. Non entire ZIACOM[®] products are available in all countries. Please consult their availability.

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Zinic[®]shorty Prosthetic procedure

Prosthetic abutments classification according to restoration type

- Provisional restoration direct to implant
- Provisional restoration on transepithelial
- Definitive restoration direct to implant
 Cemented restoration
 Screwed restoration
- Restoration on transepithelial Basic[®]
 XDrive[®]



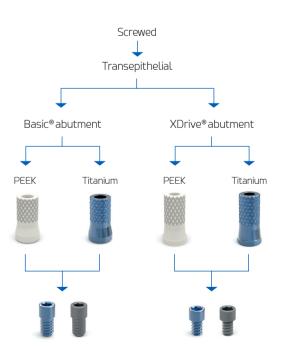
25º angled

Prosthetic abutments classification

Provisional restoration Definitive restoration Direct to implant Cemented Direct to implant Cemented Straight abutment 15º angled Cemented Screwed PEEK Titanium

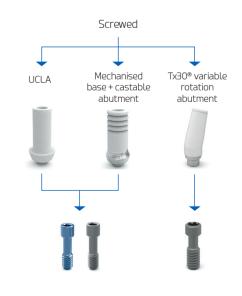
Provisional restoration

Screwed



Definitive restoration

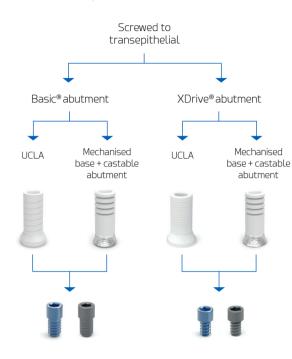
Screwed



Zinic®Shorty PROSTHETIC PROCEDURE MANUAL

Definitive restoration

Screwed to transepithelial



• Important:

The Zinic®Shorty implant is recommended for posterior maxillary and mandibular areas. Additionally, splinting is recommended in multiple cases and its use in combination with conventional length implants in complete restorations.





Important: consult availability of abutments by platform for each type of internal hexagonal connection implant.

Zinic[®]shorty Prosthetic procedure

Impression techniques

- Open tray direct to implant ZPlus® Short or long impression transfer
- Closed tray
 Z2Plus[®] (single)
 Pick-Up impression abutment (multiple)
- Open tray using transepithelials
 Basic[®]
 XDrive[®]

• Important:

The Zinic®Shorty implant is recommended for posterior maxillary and mandibular areas. Additionally, splinting is recommended in multiple cases and its use in combination with conventional length implants in complete restorations.



ZINICSHORTY



Prosthetic abutments classification Impression

Provisional restorations Definitive restorations

Place the ZPlus® into the implant

Step 02

Insert ZPlus® into the implant, checking for proper fit in the connection, and place

the impression screw either manually or with a surgical screwdriver by turning

Clinical

Clinical

Impression

Open tray direct to implant with ZPlus®



• Purpose:

The impression is considered the negative representation of the oral cavity. Open tray impression consists of transferring the implant position from the oral cavity to the working model. This process is carried out using the pick-up impression technique, the abutment is retained within the impression material after polymerisation; a customised tray is used for this purpose. Finally, this impression is cast to obtain the positive model or working model. This abutment can be used for single or multiple impressions.

Note: anodised abutment in blue and magenta colours depending on the RP and WP platform respectively.

Introduction | Required Materials

- 1. ZPlus® RP Abutment
- 2. Impression screw (Ref. LTZ3401)
- 3. Impression screw Quickly screw (Ref. LT3401Z)
- 4. Surgical screwdriver (Ref. LMSD)
- 5. Analogue (Ref. IAZ3400)



Procedure: The following illustrations are an example of a single open tray impression with ZPlus® on RP platform.

Remove the healing abutment

Clinical



Remove the healing abutment from the implant manually with the surgical screwdriver by turning anti-clockwise.

Verify that there is no interference from surrounding tissues in the implant connection.



Step 04

Remove the trav



clockwise. Apply manual torque (see torque table on page 50). Check the proper fit of the impression abutment on the implant by performing a periapical radiography.

Step 03

Impression



Select the customisable impression tray. Customise the tray by drilling a hole in the area corresponding to the implant and select a screw that protrudes from the tray. Place the elastomeric impression material around the impression abutment and then fill the tray. Take the impression according to the manufacturer's recommendations. Remove excess material from the screw heads.

Clinical

Manually unscrew the impression screw with the surgical screwdriver and remove the impression tray. Check that the impression quality is optimal for sending to the laboratory. ZPlus® must be retained in the impression material. Send to the laboratory the impression, impression screw, analogue and laboratory order.

ZPlus®



10 Zinic®Shorty

Step 01



7inic®Shorty D

		Zinic [®] Shorty PR	DSTHETIC PROCEDURE MANUAL
Prosthetic abutments	classification Impression	Provisional restoration	ns Definitive restorations
Step 05	Clinical	Step 08	Laboratory
Place the healing ab	utment	Impression pouring	
	Relocate the healing abutment immediately in the implant to prevent soft tissue collapse.		Weigh, mix and pour type IV plaster (Ameri- can Dental Association (ADA) No. 25 Classifi- cation with a minimum degree of expansion, high level of hardness) into the impression according to the manufacturer's recommen- dations.
Step 06 Analogue positioning	Laboratory	Step 09 Working model	Laboratory
Anatogue positioning		working model	
	Position the implant analogue on ZPlus® impression abutment, checking the correct fit on the hexagon, and secure it manually with the impression screw. Check that both components are seated correctly.		After the plaster has set, remove the im- pression screw and tray. Relate the work- ing model to the antagonist model using the bite registration.
¢ >		U.	
Step 07 Soft tissue represent	Laboratory tation on the working model		
	Inject material of your choice around the impression abutment, up to the appropriate level, to obtain a correct soft tissue simu- lation.		

Prosthetic abutments classification Impression

Provisional restorations Definitive restorations

Place the impression abutment into the implant

radiography.

Step 02

Step 03

Impression

Insert the impression abutment into the

implant, checking for proper fit in the con-

nection, and place the impression screw

either manually or with a surgical screwdriver by turning clockwise. Apply manual

torque (see torque table on page 50). Check

the proper fit of the impression abutment

on the implant by performing a periapical

Clinical

Clinical

Clinical

Impression

Open tray direct to implant using impression abutment



Purpose:

The impression is considered the negative representation of the oral cavity. Open tray impression consists of transferring the implant position from the oral cavity to the working model. This process is carried out using the pick-up impression technique, the abutment is retained within the impression material after polymerisation; a customised tray is used for this purpose. Finally, this impression is cast to obtain the positive model or working model. This abutment can be used for single or multiple impressions

The clinician can select the abutment that fits the oral cavity requirements as the case may be. For this, you can select either the short abutment with a height of 7, 80 mm or the long abutment with a height of 11, 80 mm.

Impression abutment

Note: anodised abutment in blue and magenta colours depending on the RP and WP platform respectively.

Introduction | Required Materials

- 1. Long impression screw (Ref. TCZ3400)
- 2. Short impression screw (Ref. TCZ3401)
- 3. Impression screw (Ref. LTZ3401)
- 4. Impression screw Quickly screw (Ref. LT3401Z)
- 5. Surgical screwdriver (Ref. LMSD)
- 6. Analogue (Ref. IAZ3400)



Procedure: The following illustrations are an example of an open tray impression with long impression abutment on RP platform.

Remove the healing abutment



Remove the healing abutment from the implant manually with the surgical screwdriver by turning anti-clockwise.

Verify that there is no interference from surrounding tissues in the implant connection.



Step 04

Remove the trav



to the manufacturer's recommendations. Remove excess material from the screw heads

Select the customisable impression tray.

Customise the tray by drilling a hole in the

area corresponding to the implant and se-

lect a screw that protrudes from the tray. Place the elastomeric impression material

around the impression abutment and then fill the tray. Take the impression according

Manually unscrew the impression screw with the surgical screwdriver and remove the impression tray. Check that the impression quality is optimal for sending to the laboratory. The impression abutment must be retained in the impression material. Send to the laboratory the impression, impression screw, analogue and laboratory order.



Step 01

		Zinic [®] Shorty PRO	STHETIC PROCEDURE MANUAL
Prosthetic abutments classification	Impression	Provisional restoration	s Definitive restorations
Step 05	Clinical	Step 08	Laboratory
Place the healing abutment		Impression pouring	
Relocate the he in the implant to	ealing abutment immediately o prevent soft tissue collapse.		Weigh, mix and pour type IV plaster (Ameri- can Dental Association (ADA) No. 25 Classifi- cation with a minimum degree of expansion, high level of hardness) into the impression according to the manufacturer's recommen- dations.
Step 06	Laboratory	Step 09	Laboratory
Analogue positioning		Working model	
pression abuti fit on the hexa with the impres	nplant analogue on the im- ment, checking the correct gon, and secure it manually ssion screw. Check that both e seated correctly.		After the plaster has set, remove the im- pression screw and tray. Relate the work- ing model to the antagonist model using the bite registration.
		Ĩ	
Step 07 Soft tissue representation on the	Laboratory		
Inject material impression ab	of your choice around the utment, up to the appro- obtain a correct soft tissue		

Prosthetic abutments classification Impression

Provisional restorations Definitive restorations

Step 02

Step 03

Clinical

Clinical

Impression

Closed tray with Z2Plus® Mount or with Z2Plus® impression abutment



Z2Plus®

• Purpose:

The impression is considered the negative representation of the oral cavity. Open tray impression consists of transferring the implant position from the oral cavity to the working model. This process is carried out using the pick-up impression technique, the transfer is retained inside the impression material after polymerisation and a conventional tray is used. Finally, this impression is cast to obtain the positive model or working model.

Z2Plus[®] closed tray impression

The clinician will select this technique in cases of single restoration with a non-rotating impression abutment

Introduction | Required Materials

- 1. Z2Plus® Abutment
- 2. Clinical screw (Ref. DSZ3400)
- 3. Laboratory screw (Ref. LBZ3400)
- 4. Snap-On impression transfer to Z2Plus® (Ref. ZPU3400)
- 5. Analogue (Ref. IAZ3400)
- 6. Surgical screwdriver (Ref. LMSD)



Procedure: The following illustrations are an example of an closed tray impression with Z2Plus® abutment on RP platform.

Remove the healing abutment





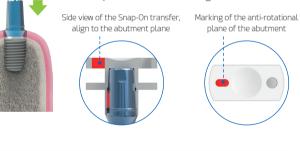
Remove the healing abutment from the implant manually with the surgical screwdriver by turning anti-clockwise.

Verify that there is no interference from surrounding tissues in the implant connection.





Place the Snap-On impression transfer Identify the oval-shaped hole in the upper flap of the transfer, this coincides with the internal plane of the transfer. Orient the oval towards the buccal side and insert it over the Z2Plus® abutment and press until you feel the final seating with a "click".



Clinical

Impression

Step 04

Select the tray for the impression. Place the elastomeric impression material around the impression abutment and then fill the tray. Take the impression according to the manufacturer's recommendations.

Step 01



Place the Z2Plus® into the implant

Identify anti-rotational plane of the Z2Plus® abutment and orient it to buccal side. Insert the abutment into the implant, checking for proper fit at the connection. Attach both using laboratory screw by tightening using surgical screwdriver, rotating clockwise and applying manual torque (see torque table on page 50). Check the proper fit of the impression abutment on the implant by performing a periapical radiography.

Prosthetic abutments classification Impression

Clinical

Clinical

Provisional restorations Definitive restorations

Step 08

Step 05

Remove the trav



Remove the impression tray, the transfer must be retained in the impression material. Remove laboratory screw and abutment. Check that the impression quality is optimal. Send to the laboratory the impression, Z2Plus® abutment, laboratory screw, analogue and laboratory order.

Step 06

Step 07

Place the healing abutment



Analogue positioning

Relocate the healing abutment immediately in the implant to prevent soft tissue collapse.



Laboratory

Position the Z2Plus® abutment over the analogue, checking that the connection is correctly adjusted, and place the laboratory screw manually with a surgical screwdriver. Insert the abutment-analogue assembly into the impression transfer retained in the impression material, orienting the anti-rotational plane towards the vestibular. Check that both components are seated correctly.

Laboratory

Soft tissue representation on the working model

Inject material of your choice around the impression abutment, up to the appropriate level, to obtain a correct soft tissue simulation.



Impression pouring

Step 09

Laboratory

Weigh, mix and pour type IV plaster (American Dental Association (ADA) No. 25 Classification with a minimum degree of expansion, high level of hardness) into the impression according to the manufacturer's recommendations.

Step 10

Working model

Laboratory

After the plaster has set, remove clinical screw, Z2Plus® abutment and tray. Relate the working model to the antagonist model using the bite registration.

Prosthetic abutments classification Impression

Provisional restorations Definitive restorations

Step 02

Impression

Closed tray using Pick-Up



• Purpose:

The impression is considered the negative representation of the oral cavity. Closed tray impression consists of transferring the implant position from the oral cav-ity to the working model. This process is carried out using the pick-up impression technique, the transfer is retained inside the impression material after polymerisation and a conventional tray is used. Finally, this impression is cast to obtain the positive model or working model.

The clinician will select this technique in cases of multiple restorations as it is a rotating abutment.

Introduction | Required Materials

- 1. Pick-Up impression abutment (Ref. PUZ3400)
- 2. Pick-Up impression transfer (Ref. CPU3410)
- 3. Analogue (Ref. IAZ3400)
- 4. Surgical screwdriver (Ref. LMSD)



Screw the abutment onto the implant using a surgical screwdriver, applying manual torque. Check the proper fit of the impression abutment on the implant by performing a periapical radiography.

Place Pick-Up impression abutment into the implant



Clinical

Clinical

Place the Pick-Up impression transfer



Position the impression transfer over the



Procedure: The following illustrations are an example of a closed tray impression on Pick-Up abutments on RP platform with Pick-Up transfer.

> Remove the healing abutment from the implant manually with the surgical screw-

> Verify that there is no interference from surrounding tissues in the implant connec-

driver by turning anti-clockwise.

Step 01 Remove the healing abutment

Clinical Step 04

Clinical

Pick-Up impression transfer splinting

Splint the impression abutments using the technique of your choice and following the manufacturer's instructions for the material selected for splinting.



tion.



abutment and press until perceiving the final seating with a "click".

Prosthetic abutments classification Impression

Clinical

Provisional restorations Definitive restorations

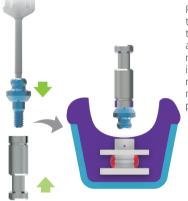
Step 05

Impression

Select the tray for the impression. Place the elastomeric impression material around the impression transfer and then fill the tray. Take the impression according to the manufacturer's recommendations.







Position the abutment over the analogue and check that the connection is correctly adjusted. Insert the abutment-analogue assembly into the impression transfer retained in the impression material. Check that both components are seated correctly.

Laboratory

Step 06

Remove the trav



Remove the impression tray, the transfer must be retained in the impression material. Remove the abutment. Check that the impression quality is optimal for sending to the laboratory. Send to the laboratory the impression, impression abutment, analogue and laboratory order.

Step 09

Laboratory

Soft tissue representation on the working model

Inject material of your choice around the impression abutment, up to the appropriate level, to obtain a correct soft tissue simulation.



Step 07

Clinical

Clinical

Step 10

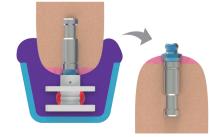
Laboratory

Impression pouring and working model



Place the healing abutment

Relocate the healing abutment immediately in the implant to prevent soft tissue collapse.



Weigh, mix and pour type IV plaster (American Dental Association (ADA) No. 25 Classification with a minimum degree of expansion, high level of hardness) into the impression according to the manufacturer's recommendations.

After the plaster has set, remove the impression tray. Relate the working model to the antagonist model using the bite registration.

Prosthetic abutments classification Impression

• Purpose:

Provisional restorations Definitive restorations

Place the impression abutments

Impression

Open tray to Basic® transepithelial



The Basic® transepithelial abutments are indicated for single or multiple restorations, depending on the selected non-rotating or rotating abutment, respectively. They allow implants rehabilitation with up to 36° of disparalelism. The impression technique is applied on either of the two types of abutments, rotating or non-rotating connection, and is independent of the abutment gingival height chosen by the clinician for the treatment.

Basic®

Important: In cases of multiple restorations, it is recommended to place Zinic®Shorty implants in combination with conventional length implants.

Introduction | Required Materials

- 1. Basic® abutment (Ref. BASIC7402N) NO ROT
- 2. Basic® impression abutment + impression screw (Ref. BATNEX34) NO ROT
- 3. Healing abutment (Ref.BAHAEX34)
- 4. Analogue (Ref. BAIANEX34)
- 5. Surgical screwdriver (Ref. LMSD)



Procedure: The following illustrations are an example of a open tray impression on Basic® abutment on RP platform for single restoration.

Remove Basic[®]healing abutments

Clinical



Remove Basic® healing abutment from the implant manually using the surgical screwdriver by turning anti-clockwise.

Verify that there is no interference from surrounding tissues in the implant connection.

Step 02

Insert the impression abutments onto the Basic® abutment and place the impression screw using a surgical screwdriver, turning clockwise. Apply manual torque. Check the correct fit of the impression abutments on the Basic[®] abutments by performing periapical radiographies.

Caution: In the case of multiple rehabilitation, splint the impression abutments using the technique of your choice and following the manufacturer's instructions for the material selected for splinting.



Step 03

Impression



Select the customisable impression tray. Customise the tray by drilling a hole in the area corresponding to the implant and check that the screw protrudes from the tray. Place the elastomeric impression material around the impression abutment and then refill the tray. Make the impression according to the manufacturer's recommendations. Remove excess material from the screw heads

Step 04

Remove the tray



Manually unscrew the impression screw with the surgical screwdriver and remove the impression tray. Check that the impression quality is optimal for sending to the laboratory. The impression abutments must be retained in the impression material. Send to the laboratory the impression, impression screws, analogues and laboratory order.

Step 01

Clinical

Clinical

Clinical

		Zinic [®] Shorty PROSTHETIC PROCEDURE MANUAL		
Prosthetic abutments	classification	Impression	Provisional restoratio	ns Definitive restorations
Step 05		Clinical	Step 08	Laboratory
Place Basic® healing	abutments		Impression pouring	
		ealing abutment imme- mplant to prevent soft		Weigh, mix and pour type IV plaster (Ameri- can Dental Association (ADA) No. 25 Clas- sification with a minimum degree of ex- pansion, high level of hardness) into the impression following the manufacturer's recommendations.
Step 06		Laboratory	Step 09	Laboratory
Basic® analogues po	sitioning		Working model	
	abutment, checkin cure it manually w using a surgical	alogue in the impression g the correct fit, and se- ith the impression screw screwdriver. Check that are seated correctly.		After the plaster has set, remove impres- sion screws and impression tray. Relate the working model to the opposing model us- ing the bite registration.





Step 07 Laboratory Soft tissue representation on the working model

simulation.

Inject material of your choice around the impression abutment, up to the appropri-ate level, to obtain a correct soft tissue





Prosthetic abutments classification Impression

Provisional restorations Definitive restorations

Clinical

Clinical

Clinical

Impression

Open tray to XDrive® transepithelial



XDrive[®]

• Purpose:

The impression is considered the negative representation of the oral cavity. Open tray impression consists of transferring the implant position from the oral cavity to the working model. This process is carried out using the pick-up impression technique, the abutment is retained within the impression material after polymerisation; a customised tray is used for this purpose. Finally, this impression is cast to obtain the positive model or working model.

Open tray impression for XDrive® transepithelial

XDrive® transepithelial abutments are indicated for multiple restorations. They allow the rehabilitation of angled implants. The impression technique can be applied to both straight and angled abutments and is independent of the abutment gingival height chosen by the clinician for the treatment

Introduction | Required Materials

- 1. XDrive® straight abutment (Ref. XST10Z30)
- 2. XDrive® angled abutment 17º (Ref. XA210Z17)
- 3. XDrive® angled abutment 30º (Ref. XA310Z30)
- 4. XDrive® impression abutment + impression screw (Ref. XT103400)
- 5. Healing abutment (Ref. XH103400)
- 6. XDrive® analogue (Ref. XIA103400)
- 7. Surgical screwdriver (Ref. LMSD)



Procedure: The following illustrations are an example of a open tray impression on XDrive® abutments on RP platform for multiple restoration.

Remove XDrive® healing abutments

Clinical

Remove XDrive® healing abutment from the implants manually with the surgical screwdriver by turning anti-clockwise.

Verify that there is no interference from surrounding tissues in the abutment connec-



Step 02

Place the impression abutments



Insert the impression abutments onto the XDrive® abutments and place the impression screw using a surgical screwdriver, turning clockwise. Apply manual torque. Check the correct fit of the impression abutment on the XDrive® abutments by performing a periapical radiography.



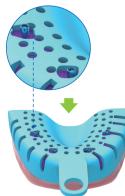
Abutments splinting

Splint the impression abutments using the technique of your choice and following the manufacturer's instructions for the material selected for splinting.

Important: In cases of complete restorations, it is recommended to place Zinic®Shorty implants in combination with conventional length implants and splinting of the implants, both for impression and for the final restoration.



Impression



Select the customisable impression tray. Customise the tray by drilling a hole in the area corresponding to the implant and check that the screw protrudes from the tray. Place the elastomeric impression material around the impression abutments and then refill the tray. Make the impression according to the manufacturer's recommendations. Remove excess material from the screw heads.

Step 01

Soft tissue representation on the working model

simulation.

Prosthetic abutments classification

Impression

Clinical

Provisional restorations Definitive restorations

Step 08

Step 09

Inject material of your choice around the

impression abutment, up to the appropri-

ate level, to obtain a correct soft tissue

Laboratory

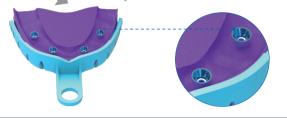
Laboratory

Laboratory

Step 05

Remove the trav

Manually unscrew the impression screws with the surgical screwdriver and remove the impression tray. Check that the impression quality is optimal for sending to the laboratory. The impression abutments must be retained in the impression material. Send to the laboratory the impression, impression screws, analogues and laboratory order.



Step 06

Place XDrive[®] healing abutments

Relocate the healing abutments immediately in the implants to prevent soft tissue

Laboratory



Impression pouring

Weigh, mix and pour type IV plaster (American Dental Association (ADA) No. 25 Classification with a minimum degree of expansion, high level of hardness) into the

impression following the manufacturer's recommendations.



Step 07

Laborator

XDrive[®] analogue positioning



Position XDrive® analogues in the impression abutments, checking the correct fit, and secure it manually with the impression screws using a surgical screwdriver. Check that both components are seated correctly.

Step 10

Working model

After the plaster has set, remove impression screws and impression tray. Relate the working model to the opposing model using the bite registration.



Zinic[®]Shorty 21

Zinic[®]shorty Prosthetic procedure

Provisional restorations

- Cemented with PEEK abutment or Titanium direct to implant
- Screwed with PEEK or Titanium abutment direct to implant

 a) Intraoral cementation
 b) Extraoral cementation
- Screwed with PEEK or Titanium abutment on transepithelial Basic[®]
 XDrive[®]

• Important:

The Zinic®Shorty implant is recommended for posterior maxillary and mandibular areas. Additionally, splinting is recommended in multiple cases and its use in combination with conventional length implants in complete restorations.



ZINICSHORTY



Prosthetic abutments classification Impression

Provisional restorations

Step 02

Clinical

Clinical

Provisional restorations

Cemented using provisional abutments



• Purpose: Provisional abutments are used for the fabrication of single or multiple provisional restorations and are available in PEEK and Titanium. This option allows the

of single or multiple provisional restorations and are available in PEEK and Titanium. This option allows the professional to model the soft tissue and shape the emergence profile. PEEK abutments are indicated for aesthetic areas and immediate loading.

Provisionals

Introduction | Required Materials

- 1. PEEK provisional abutment (Ref. RUZP3410) ROT
- 2. PEEK provisional abutment (Ref. NUZP3410) NO ROT
- 3. Titanium provisional abutment (Ref. RUZT3410) ROT
- 4. Titanium provisional abutment (Ref. NUZT3410) NO ROT
- 5. Clinical screw (Ref. DSZ3400)
- 6. Kiran® clinical screw (Ref. DSZ3410)
- 7. Laboratory screw (Ref. LBZ3400)
- 8. Analogue (Ref. IAZ3400)
- 9. Surgical screwdriver (Ref. LMSD)



Procedure: The following illustrations are an example of a single cemented provisional restoration with a PEEK abutment on RP platform.

Remove the healing abutment



Remove the healing abutment from the implant manually with the surgical screwdriver by turning anti-clockwise.

Verify that there is no interference from surrounding tissues in the abutment connection.



Place the provisional abutment



Insert the provisional abutment into the implant, checking that the fit is correct between the two components. Insert the laboratory screw using a surgical screwdriver and turn it clockwise. Apply manual torque. Mark the abutment height according to the available interocclusal space and check the gingival contour.



Abutment preparation



Remove the abutment from the implant and relocate the healing abutment to prevent soft tissue collapse. Attach the abutment to a corresponding platform analogue. Attach both with a laboratory screw using a surgical screwdriver. Prepare the abutment according to the marks made in the previous step.



Clinical

Step 04

Clinical

Place the modified provisional abutment



Insert the provisional abutment into the implant, checking that the fit is correct. Place the clinical screw using a surgical screwdriver and turn it clockwise. Place the clinical screw manually or using a surgical screwdriver and apply 30Ncm of torque using a screwdriver tip.



Caution: Do not exceed the set torque.

Step 01

Prosthetic abutments classification Impression

Provisional restorations Definitive restorations



Fill screw access canal

Step 05

Place a resilient material on top of screw access canal, then block with filling material. This procedure will allow easy access to the screw in the future. Prior to making the restoration, apply a separator onto the abutment.



Step 06

Make the crown and fill it

Fabricate a provisional crown using the chosen method. Mix the filling material and place it in the crown, position the crown on the provisional abutment.

Step 07

Clinical

Clinical

Excess removal, fit and cementing



Remove excess off the filling material from the crown and polish. Place the crown over the abutment to check the occlusion, fitting and gingival contour. Make the required modifications and polish again. Remove from the abutment the separator waste previously placed. Cement the crown according to the cement manufacturer's recommendations.

Prosthetic abutments classification Impression

Provisional restorations

Step 02

Clinical

Clinical

Provisional restorations

Screwed using provisional abutments



a) Intraoral cementation procedure

• Purpose:

Provisional abutments are used for the fabrication of single or multiple provisional restorations and are available in PEEK and Titanium. This option allows the professional to model the soft tissue and shape the emergence profile. PEEK abutments are indicated for aesthetic areas and immediate loading.

Provisionals

Introduction | Required Materials

- PEEK provisional abutment (Ref. RUZP3410) ROT 1
- 2. PEEK provisional abutment (Ref. NUZP3410) NO ROT
- Titanium provisional abutment (Ref. RUZT3410) ROT Э.
- 4. Titanium provisional abutment (Ref. NUZT3410) NO ROT
- 5. Laboratory screw (Ref. LBZ3400)
- Clinical screw (Ref. DSZ3400) 6.
- 7. Kiran® clinical screw (Ref. DSZ3410)
- 8. Impression screw (Ref. LTZ3401)
- Impression screw Quickly screw (Ref. LT3401Z)
- 10. Analogue (Ref. IAZ3400)
- 11. Surgical screwdriver (Ref. LMSD)



Procedure: The following illustrations are an example of a single screwed provisional restoration with a titanium abutment on RP platform.



Clinical

Remove the healing abutment from the implant manually with the surgical screwdriver by turning anti-clockwise.

Verify that there is no interference from surrounding tissues in the abutment connection.



Place the provisional abutment



Insert the provisional abutment into the implant, checking that the fit is correct between the two components. Insert the laboratory screw using a surgical screwdriver and turn it clockwise. Apply manual torque. Mark the abutment height according to the available interocclusal space and check the gingival contour.

Step 03

Abutment preparation

Remove the abutment from the implant and relocate the healing abutment to prevent soft tissue collapse. Attach the abutment to a corresponding platform analogue with laboratory screw and surgical screwdriver. Prepare the abutment according to the marks made in the previous step.



Clinical

Step 04

Place the modified provisional abutment



Insert the provisional abutment into the implant, checking that the fit is correct, and place the laboratory screw manually or using a surgical screwdriver. Apply manual torque.



Prosthetic abutments classification Impression

Provisional restorations Definitive restorations

Clinical

Clinical

Step 05

Clinical

Fabrication and adjustment of the crown



Fabricate a provisional crown using the method of your choice and modify it according to the patient's needs.



Remove excess of the filling material from the crown and polish. Place the crown over the abutment to check the occlusion, fitting and gingival contour. Make the required modifications and polish again. Cement the crown according to the manufacturer's recommendations.



Place impression screw and drill the crown



Remove laboratory screw. Relocate using a impression screw and torque manually. Drill the crown at the top to allow the screw to pass through it.

Step 09

Step 08

Screw restoration to implant



Position the abutment-restoration assembly over the implant. Place the clinical screw using a surgical screwdriver and tighten manually. Apply 30Ncm of torque using a contra-angle screwdriver tip or a torque wrench (see torque table on page 50).



Caution: Do not exceed the set torque.

Step 07

Fill the crown and cement

Mix the filling material, fill the crown and place it on the provisional abutment. After polymerising the filling material, remove the impression screw and crown.

Clinical

Prosthetic abutments classification Impression

Provisional restorations

Clinical

Clinical

Provisional restorations

Screwed using provisional abutments



b) Extraoral cementation procedure

• Purpose:

Provisional abutments are used for the fabrication of single or multiple provisional restorations and are available in PEEK and Titanium. This option allows the professional to model the soft tissue and shape the emergence profile. PEEK abutments are indicated for aesthetic areas and immediate loading,

Provisionals

Introduction | Required Materials

- 1. PEEK provisional abutment (Ref. RUZP3410) ROT
- 2. PEEK provisional abutment (Ref. NUZP3410) NO ROT
- 3. Titanium provisional abutment (Ref. RUZT3410) ROT
- 4. Titanium provisional abutment (Ref. NUZT3410) NO ROT
- 5. Laboratory screw (Ref. LBZ3400)
- 6. Clinical screw (Ref. DSZ3400)
- 7. Kiran® clinical screw (Ref. DSZ3410)
- 8. Impression screw (Ref. LTZ3401)
- 9. Impression screw Quickly screw (Ref. LT3401Z)
- 10. Analogue (Ref. IAZ3400)
- 11. Surgical screwdriver (Ref. LMSD)



Procedure: The following illustrations are an example of a single screwed provisional restoration with a titanium abutment on RP platform.

Step 01

Clinical

Remove the healing abutment from the implant manually with the surgical screw-

Verify that there is no interference from surrounding tissues in the abutment con-

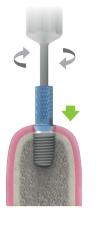
driver by turning anti-clockwise.

Remove the healing abutment

nection.

Step 02

Place the provisional abutment



Insert the provisional abutment into the implant, checking that the fit is correct between the two components. Insert the laboratory screw using a surgical screw-driver and turn it clockwise. Apply manual torque. Mark the abutment height according to the available interocclusal space and check the gingival contour.



Abutment preparation

Remove the abutment from the implant and relocate the healing abutment to prevent soft tissue collapse. Attach the abutment to a corresponding platform analogue with laboratory screw and surgical screwdriver. Prepare the abutment according to the marks made in the previous step.





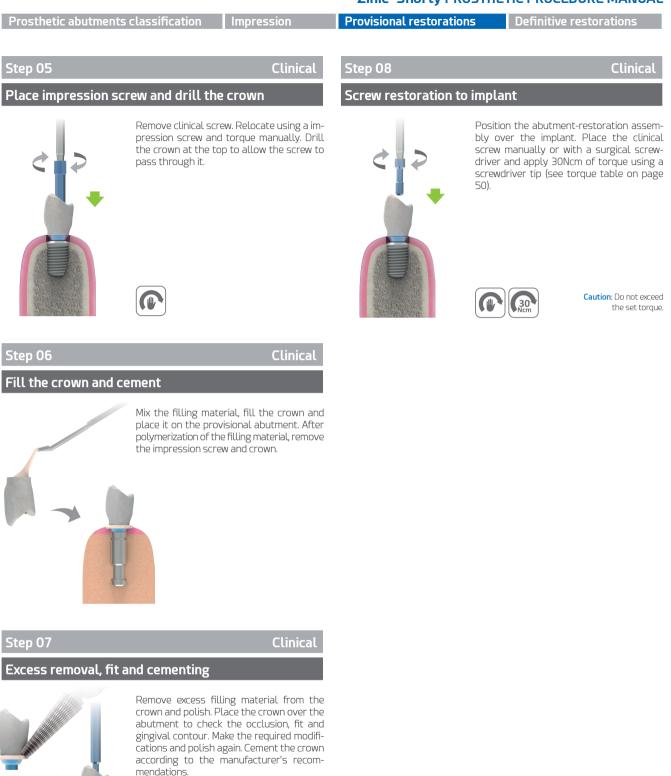
Clinical

Step 04

Fabrication and adjustment of the crown

Make a provisional crown with the method of your choice and modify it according to the patient's needs.





Prosthetic abutments classification Impression

Provisional restorations

Step 02

Step 03

Provisional restorations

Screwed on Basic® transepithelials



• Purpose:

The Basic® transepithelial abutments are indicated for single or multiple restorations, depending on the selected non-rotating or rotating abutment, respectively. They allow implants rehabilitation with up to 36° of disparalelism. Provisional abutments made of PEEK or titanium allow the fabrication of immediate or delayed loading screwed provisional prosthesis.

Important: In cases of complete restorations, it is recommended to place Zinic®Shorty implants in combination with conventional length implants.

Basic[®]

Introduction | Required Materials

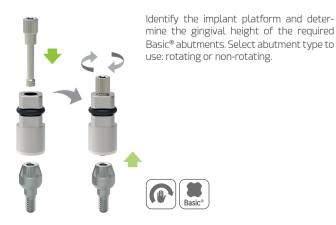
- 1. Basic® abutment (Ref. BASIC7202) ROT
- 2. Basic® provisional abutment (Ref. BARUP34) ROT
- 3. Basic® provisional abutment (Ref. BARUT10) ROT
- 4. Basic® clinical screw (Ref. BDSEI3400)
- 5. Kiran® Basic® clinical screw (Ref. BDSEI3410)
- 6. Basic® laboratory screw (Ref. BDSEI3401)
- 7. Surgical screwdriver (Ref. LMSD)
- 8. Basic® insertion key (Ref. MABA100)
- 9. Screwdriver handle (Ref. MADW10)
- 10. Torque wrench (Ref. TORK50)



Procedure: The following illustrations represent the example of a multiple screwed provisional restoration with a PEEK abutment on Basic® transepithelial abutment on RP platform.

Step 01 Select Basic® abutments

Clinical



Step 04



Transfer abutments position to the prosthesis



Mark on top of the provisional abutments with the technique of your choice (suitable marker, articulating paper, among others). Place the prosthesis in the oral cavity and press on the cylinders to transfer the marks. Remove the prosthesis. Check the visibility of the marks. Repeat the procedure if necessary.

Place Basic[®] provisional abutments



Place Basic[®] abutments on implant

ment on the insertion key and tighten with the rear screw. Screw the straight abutment-insertion key assembly to the implant manually with the adapter handle. Insert torque wrench over the insertion key and apply torque at 30 Ncm (see torque table on page 50).

Position the straight abut-



Clinical

Clinical

Insert the provisional abutment to be used on the Basic® abutment, making sure that the adjustment is correct between both and fix it with the Basic® laboratory screw using a surgical screwdriver, turning clockwise. Apply manual torque.

Prosthetic abutments classification Impression

Drill holes in the prosthesis

Clinical

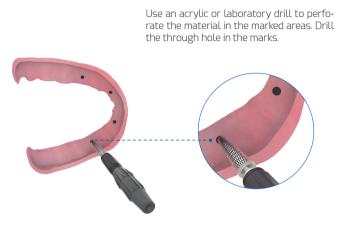
Clinical

Provisional restorations Definitive restorations

Clinical

Clinical

Step 05



Step 06

Check the prosthesis fitting

Reposition the prosthesis in the oral cavity. Verify that the holes fit into the provisional abutments and that there is space around them. Check that the prosthesis is properly seated on the alveolar ridge. Make any necessary modifications.

Step 08

Remove prosthesis and make final try-in



Remove laboratory screws with a surgical screwdriver. Extract the prosthesis. Verify that the abutments are correctly attached to the prosthesis. Perform soft tissue reline if necessary. Cut off the height of the provisional abutments until they are flush with the prosthesis on its occlusal side, avoiding overheating. Make the final modifications, occlusion adjustment and polishing.

Step 09

Reposition the prosthesis in the oral cavity

Reposition the prosthesis on the transepithelial abutments and check the fit. Place the clinical screw using a surgical screwdriver and tighten manually. Apply 25Ncm of torque using a contra-angle screwdriver tip or a torque wrench (see torque table on page 50).





Step 07 Clinical

Attach the provisional abutments to the prosthesis

Fill the abutment screw canal with the material of your choice to prevent the filling material to enter into the abutments. Use the filling material to fix the provisional abutments, following the manufacturer's recommendations.





Important note: Do not exceed 25 Ncm to avoid screw fractures.

Prosthetic abutments classification Impression

Provisional restorations

Straight abutments

Step 02-A

Definitive restorations

Provisional restorations

Screwed on XDrive® transepithelials



• Purpose:

XDrive® transepithelial abutments are intermediate abutments that are indicated for multiple implant and/or angled implant restorations. The rehabilitation techniques can be applied to both straight and angled abutments and is independent of the abutment gingival height chosen by the clinician for the treatment.

Provisional abutments made of PEEK or titanium allow the fabrication of immediate or delayed loading screwed provisional prosthesis.

XDrive[®]

Important: In cases of complete restorations, it is recommended to place Zinic®Shorty implants in combination with conventional length implants.

Introduction | Required Materials

- XDrive® straight abutment (Ref. XST10Z20) XDrive® angled abutment 17º (Ref. XA210Z17)
- XDrive® angled abutment 30° (Ref. XA310Z30)
- 3 XDrive® provisional abutment (Ref. XST3410) 4.
- 5. XDrive® provisional abutment (Ref. XSP3410)
- XDrive® clinical screw (Ref. XDS103410) б.
- Kiran® XDrive® clinical screw (Ref. XDS103411)
- Surgical screwdriver (Ref. LMSD) 8
- Screwdriver tip CA (Ref. MESD) Q
- 10. Screwdriver tip (Ref. LMSD1)
- 11. XDrive® insertion key (Ref. MABA200)
- 12. Screwdriver handle (Ref. MADW10)
- 13. Torque wrench (Ref. TORK50)
- F 5 6 7 8 q 10 11 4

Procedure: The following illustrations represent the example of a multiple screwed provisional restoration with a titanium abutment on XDrive® transepithelial abutment on RP platform.

Step 01

Clinical

Step 03

Select and place XDrive® abutments on implant

Identify the implant platform and determine the gingival height of the required XDrive® abutments. Select the abutment type to use: straight, 17° angled or 30° angled.



Place XDrive® abutments

Position the straight abutment on the insertion key and tighten with the rear screw. Screw the straight abutment-insertion key assembly to the implant manually with the adapter handle. Insert torque wrench over the insertion key and apply torque at 30 Ncm (see torque table on page 50).

Clinical





Caution: Do not exceed the set

torque.

Clinical

Step 02-B

Angled abutments



Insert the angled abutment into the implant and choose the position for angle correction. Screw manually using a surgical screwdriver. Then, with a contra-angle or ratchet screwdriver tip, apply a torque of 30Ncm with the contra-angle or torque wrench, as appropriate.



Caution: Do not exceed the set toraue.

Clinical

Insert the provisional abutment to be used on the XDrive® abutment, making sure that the fit is correct between both and attach it with XDrive® laboratory screw using a surgical screwdriver, turning clockwise. Apply manual torque.

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Prosthetic abutments classification Impression

Clinical

Clinical

Provisional restorations Definitive restorations

Clinical

Clinical

Transfer abutments position to the prosthesis



Mark on top of the abutments with the technique of your choice (suitable marker, articulating paper, among others). Place the prosthesis in the oral cavity and press on the cylinders to transfer the marks. Remove the prosthesis. Check the visibility of the marks. Repeat the procedure if necessary.

Step 07

Attach the provisional abutments to the prosthesis

Fill the abutment screw canal with the material of your choice to prevent the filling material to enter into the abutments. Use the filling material to fix the provisional abutments, following the manufacturer's recommendations.

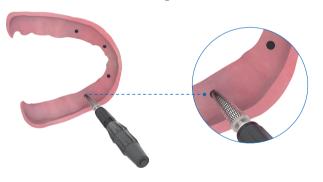


Step 05

Step 04

Drill holes in the prosthesis

Use an acrylic or laboratory bur to drill the material in the marked areas. Drill the through hole in the marks.



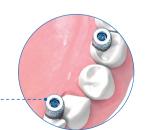
Step 06

Clinical

Check the prosthesis fitting

Reposition the prosthesis in the oral cavity. Verify that the holes fit into the provisional abutments and that there is space around them. Check that the prosthesis is properly seated on the alveolar ridge. Make any necessary modifications.





Step 08

Remove prosthesis and make final try-in



Remove laboratory screws with a surgical screwdriver. Extract the prosthesis. Verify that the abutments are correctly attached to the prosthesis. Perform soft tissue reline if necessary. Cut off the height of the provisional abutments until they are flush using the occlusal side of the prosthesis, avoiding overheating. Make the final modifications, occlusion fit and polishing.

Step 09

Clinical

Reposition the prosthesis in the oral cavity

Reposition the prosthesis on the transepithelial abutments and check the fit. Place the clinical screw using a surgical screwdriver and tighten manually. Apply 20Ncm of torque using a contra-angle screwdriver tip or a torque wrench (see torque table on page 50).



Important note: Do not exceed 20 Ncm to avoid screw fractures

Zinic[®]shorty Prosthetic procedure

Definitive restorations

- Cemented on abutments (Straight abutment, 15° angled and 25° angled)
- Screwed on abutments
 Castable
 Mechanised base + castable abutment
 Tx30[®]
- Screwed to transepithelial
- Basic[®] XDrive[®]

• Important:

The Zinic®Shorty implant is recommended for posterior maxillary and mandibular areas. Additionally, splinting is recommended in multiple cases and its use in combination with conventional length implants in complete restorations.



ZINICSHORTY



Prosthetic abutments classification Impression Provisional restorations Definitive restorations

Cemented restorations

On abutments direct to implant



• Purpose:

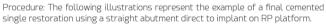
Cemented abutments are used for single or multiple restorations with intraoral cementation. The restoration is fabricated in the laboratory using the method selected by the professional, the abutment is then fixed to the implant using the clinical screw and the restoration is finally cemented in the oral cavity.



Introduction | Required Materials

- 1. Straight abutment (Ref. STZ3415)
- 2. 15º angled abutment (Ref. A1Z3415)
- 3. 25º angled abutment (Ref. A1Z3425)
- 4. Clinical screw (Ref. DSZ3400)
- 5. Kiran® clinical screw (Ref. DSZ3410)
- 6. Laboratory screw (Ref. LBZ3400)
- Surgical screwdriver (Ref. LMSD) 7
- 8. Screwdriver tip (Ref. LMSD1)
- 9. Torque wrench (Ref. TORK50)







Clinical

Laboratory Step 02

Working model obtaining

Make the working models in plaster type IV (American Dental Association (ADA) No. 25 Classification with a minimum degree of expansion, high level of hardness) following the manufacturer's recommendations. Model soft tissue and articulate with bite registration according to the usual laboratory procedures.



Step 03

Laboratory

Select and attach the abutment

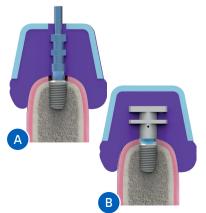


Select the abutment considering the implant platform, gingival height and angle required. Position the abutment on the analogue, making sure that the fit is correct in the connection, and attach with the laboratory screw manually using the surgical screwdriver. Evaluate interocclusal space, angle and soft tissue contours. Mark the abutment with the modifications to be made, considering the minimum thickness of the restoration material.



Laboratory

Impression



Perform the implant impression with the method of your choice, open tray (option A) or closed tray (option B), following the procedure explained in the section on impression techniques. Take the impression of the opposing arch. Make bite registration. Send to the laboratory the impressions, analogue, impression screw, laboratory screw and bite registration.

Abutment preparation

Step 04



Remove the abutment from the analogue and secure it to a universal handle with the proper tip. Prepare the abutment according to the references of the marks made in the previous step. Define the preparation margins. Make a mark on the buccal side of the abutment to facilite the abutment positioning in the oral cavity.



Prosthetic abutments classification Impression

Laboratory

Provisional restorations Definitive restorations

Clinical

Step 05

Mount abutment into model

To make the final adjustments, position the abutment on the model and secure it with the laboratory screw using manual torque. Consider the preparation of margins, in aesthetic zone between 0.5-1 mm subgingival, in non-aesthetic areas preparation must be at the gingival or supragingival level.



Clean and place abutment in mouth



Disinfect the prepared abutment and crown. Remove the healing abutment or provisional prosthesis with the surgical screwdriver. Verify that there is no interference from surrounding tissues over the implant connection. Position the abutment on the implant, making sure that the fit is correct between the two components, and attach with the clinical screw, manually with the surgical screwdriver. Perform a periapical radiography to verify that the abutment is correctly seated on the implant.



Clinical

Caution: Do not exceed the set torque.

Step 06

Wax and cast metal coping

Seal the screw access channel to prevent contamination with the waxing material and apply the isolation agent. Wax-up the coping, separate it from the abutment and add the casting sprue. Cast the framework with the lost wax casting technique, following the manufacturer's recommendations for the selected material.

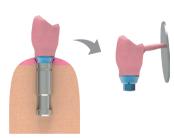
Laboratory

Step 09

Apply final torgue to clinical screw



Tighten the clinical screw to 30 Ncm using a screwdriver tip and torque wrench. The tip is attached to the ratchet through the 4x4mm square connection (see torque table on page 50).



Step 07

Laboratory

Crown preparation and ceramic layering

Remove the casting sprue from the framework casting. Check the fit of the metal framework with the abutment. Carry out the final adjustments before applying the ceramic layers.

Apply the opague layer over the metal framework and then apply the ceramic. Finish the restoration with the usual procedure. Send the finished crown and prepared abutment to the professional.

Step 10 Clinical **Crown cementation**



Place a resilient material in the screw access channel at the top of the screw canal, then block with filling material. This procedure will allow easy access to the screw in the future. Place the crown over the abutment to check the occlusion, fit and contour. Modify the framework if necessary to improve fit, contour or occlusion of the restoration and polish. Finally, cement the crown using the cement of your choice, following the manufacturer's recommendations. Remove excess cement. Check the correct fit of the crown on the abutment by performing a periapical radiography.

Prosthetic abutments classification Impression

• Purpose:

Step 02

Working model obtaining

Provisional restorations Definitive restorations

Make the working models in plaster type

IV (American Dental Association (ADA) No. 25 Classification with a minimum degree of

expansion, high level of hardness) follow-

ing the manufacturer's recommendations.

Model soft tissue and articulate with bite

registration according to the usual labora-

tory procedures.

Laboratory

Definitive restorations

Screwed direct to implant



UCLA-type or Co-Cr mechanised base castable abutments are used for single or multiple restorations. In the laboratory, procedures for obtaining crowns or bridges are performed, and the restorations are fixed directly to the implant using a clinical screw.



base abutments

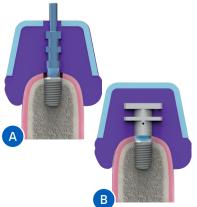
Introduction | Required Materials

- 1. UCLA-castable (Ref. NUZ3400) NO ROT
- 2. Mechanised base + castable abutment (Ref. BNUZ34) NO ROT
- 3. Clinical screw (Ref. DSZ3400)
- 4. Kiran® clinical screw (Ref. DSZ3410)
- 5. Laboratory screw (Ref. LBZ3400)
- 6. Surgical screwdriver (Ref. LMSD)
- 7. Screwdriver tip (Ref. LMSD1)
- 8. Torque wrench (Ref. TORK50)



Procedure: The following illustrations are an example of a definitive screwed single restoration using a castable abutment on RP platform.





Perform the implant impression with the method of your choice, open tray (option A) or closed tray (option B), following the procedure explained in the section on impression techniques. Take the impression of the opposing arch. Make bite registration. Send to the laboratory the impressions, analogue, impression screw, laboratory screw and bite registration.

Step 03

Abutment selection



Select the abutment considering the implant platform. Position the abutment on the analogue, making sure that the fit is correct in the connection, and attach with the laboratory screw manually using the surgical screwdriver. Evaluate the in-



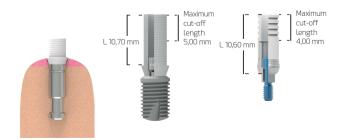
Laboratory

Laboratorv

Abutment preparation

Step 04

Prepare the abutment and make the modifications if necessary, considering the interocclusal space.



Zinic®Shorty

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terocclusal space.

Prosthetic abutments classification Impression

Laboratory

Laboratory

Provisional restorations Definitive restorations

Clinical

Step 05

Wax and cast metal coping

Seal the screw access channel to prevent contamination with the waxing material. Wax-up the coping, separate it from the abutment and add the casting sprue. Cast the framework with the lost wax casting technique, following the manufacturer's recommendations.

Step 08





Disinfect the restoration. Remove the healing abutment or provisional prosthesis with the surgical screwdriver. Verify that there is no interference from surrounding tissues over the implant connection. Position the restoration on the implant and attach it manually with the clinical screw using a surgical screwdriver. Perform a periapical radiography to verify the correct seating of the restoration on the implant.



Clinical

torque.

Clinical

Step 06

Crown preparation for ceramic

Remove the casting sprue from the framework casting. Check the fitting of the metal framework with the abutment. Carry out the final adjustments before applying the ceramic layers.



Step 09

Step 10

Apply final screw torque



Tighten the clinical screw to 30 Ncm using a screwdriver tip and torque wrench. The tip is attached to the ratchet through the 4x4mm square connection (see torque table on page 50).



Laborator

Ceramic layering

Step 07

Apply the opaque layer over the metal framework and then apply the ceramic. Finish the crown with the usual procedure. Send the finished crown and prepared abutment to the professional.





in the future. Check the proper fit of the abutment on the implant by performing a periapical radiography.



Prosthetic abutments classification Impression

Provisional restorations

Definitive restorations

Definitive restorations

Screwed to implant with Tx30® variable rotation abutment

• Purpose:

Tx30° abutments consist of a Co-Cr mechanised base and castable plastics of different fixed angles, which can rotate 360° on the base. They are used for single or multiple restorations. In the laboratory, the procedures for obtaining a crown or bridge are performed. The restorations are attached directly to the implant with Tx30° clinical screw using the Tx30° screwdriver, these components are specially designed to allow the screw to be tightened in angled cases.

Tx30[®] abutment variable rotation

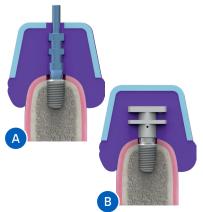
Introduction | Required Materials

- 1. Tx30° mechanised base abutment + 2 castable abutments (15° and 20°) (Ref. BNUZ34TX) NO ROT
- 2. Tx30® mechanised base abutment + 2 castable abutments (20º and 25º) (Ref. BNUZ34TX1) NO ROT
- 3. Kiran® Tx30® clinical screw (Ref. DSZ3410TX)
- 4. Tx30® screwdriver tip ratchet/manual (Ref. LMSD1TX)
- 5. Tx30® screwdriver tip CA (Ref. MESDTX)
- 6. Tx30® prosthetic screwdriver manual (Ref. LMSDTX)
- 7. Torque wrench (Ref. TORK50)



Procedure: The following illustrations are an example of a definitive screwed single restoration with Tx30° abutment variable rotation on RP platform.





Take the implant impression with the method of your choice, open tray (option A) or closed tray (option B), following the procedure explained in the impression section. Take the impression of the opposing arch. Make bite registration. Send to the laboratory the impressions, analogue, impression screw, TX30[®] Kiran[®] clinical screw and bite registration.

Step 03

Abutment selection



Select the abutment considering the implant platform. Position the mechanised base on the analogue by checking the correct fit on the connection. Secure the mechanised base manually with the Tx30° clinic screw using the Tx30° surgical screwdriver. Select the castable angled abutment (T5°, 20° and 25°) according to the clinical case. Select the castable angled abutment based on the location and angle of the implant to determine the emergence of the screw channel. Press the castable abutment onto the mechanised base. Turn the castable abutment on the mechanised base until the desired position is achieved.



Laboratory

Abutment preparation

Step 04



Evaluate the interocclusal space. Prepare the abutment and make the necessary modifications, considering the interocclusal space.



Step 02 Laboratory

Working model obtaining

Make the working models in plaster type IV (American Dental Association (ADA) No. 25 Classification with a minimum degree of expansion, high level of hardness) following the manufacturer's recommendations. Model soft tissue and articulate with bite registration according to the usual laboratory procedures.



Laboratory

Prosthetic abutments classification Impression

Laboratory

Provisional restorations Definitive restorations

Clinical

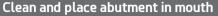
Step 05

Wax and cast crown metal base

Seal the screw access channel to prevent contamination with the waxing material. Wax-up the coping, separate it from the abutment and add the casting sprue. Cast the framework with the lost wax casting technique, following the manufacturer's recommendations.

Laboratory

Step 08





Disinfect the restoration. Remove the healing abutment or provisional prosthesis with the surgical Tx30® screwdriver. Verify that there is no interference from surrounding tissues over the implant connection. Position the restoration on the implant and attach it manually with Tx30® Kiran® clinical screw using Tx30® surgical screwdriver. Perform a periapical radiography to verify the correct seating of the restoration on the implant.



Clinical

Caution: Do not exceed the set torque.

Step 06

Crown preparation for ceramic

Remove the casting sprue from the framework casting. Check abutment fit. Carry out the final adjustments before applying the ceramic layers.

Step 09

Apply final screw torque



Tighten the clinical screw to 30 Ncm using the Tx30® contra-angle screwdriver tip or Tx30[®] ratchet screwdriver tip (see torque table on page 50).



Laborator

Ceramic layering

Step 07

Apply the opaque layer over the metal framework and then apply the ceramic. Finish the crown with the usual procedure. Send the finished crown and prepared abutment to the professional.







Place a resilient material in the screw access channel at the top of the screw, then block with filling material. This procedure will allow easy access to the screw in the future. Check the proper fit of the abutment on the implant by performing a periapical radiography.

Prosthetic abutments classification Impression Provisional restorations Definitive restorations

Place Basic[®] abutments on implant

Step 02

Definitive restorations

Screwed to Basic[®] transepithelial abutment



• Purpose:

Basic® transepithelial abutments are indicated for single or multiple restorations depending on the chosen abutment. They allow implants rehabilitation with up to 36° of disparalelism. The definitive restoration will be fabricated in the laboratory with castable or Co-Cr mechanised base + castable abutments that are positioned over the transepithelial abutments.

Important: In cases of complete restorations, it is rec-ommended to place Zinic®Shorty implants in combination with conventional length implants.

Basic[®]

Introduction | Required Materials

- Basic® abutment (Ref. BASICZ402) ROT 1
- Basic® UCLA (Ref. BARUEX34) ROT 2. З. Basic ® mechanised base + castable abutment
- (Ref. BBRU34) ROT
- 4 Basic® clinical screw (Ref. BDSEI3400)
- 5. Kiran® Basic® clinical screw (Ref. BDSEI3410)
- Basic® laboratory screw (Ref. BDSEI3401) 6
- Basic[®] healing abutment (Ref. BAHAEX34)
 Basic[®] analogue (Ref. BAIAEX34)
- q Surgical screwdriver (Ref. LMSD)
- 10. Basic® insertion key (Ref. MABA100)
- Screwdriver handle (Ref. MADW10) 12. Torque wrench (Ref. TORK50)



Procedure: The following illustrations are an example of a definitive screwed multiple restoration with Basic® abutment on RP platform.



Select Basic® abutments

Identify the implant platform and determine the gingival height of the required Basic® abutments. Select abutment type to use: rotating or non-rotating.



Working model obtaining

Make the working models in plaster type IV (American Dental Association (ADA) No. 25 Classification with a minimum degree of expansion, high level of hardness) following the manufacturer's recommendations. Model soft tissue and articulate with bite registration according to the usual laboratory procedures.



insertion key and tighten with the rear screw. Screw the insertion key-abutment assembly to the implant manually. Insert torque wrench over the insertion key and apply torque at 30 Ncm (see torque table on page 50).

Position the abutment on the

Clinical





Do not exceed the set torque.

Caution:

Clinical

Laboratory

Step 03

Impression into transepithelial abutments



Perform the implant impression, following the procedure explained in section impression techniques. Take the impression of the opposing arch. Make bite registration. Send to the laboratory the impressions, analogue, impression screw, Basic® laboratory screw and bite registration. Relocate Basic® healing abutments.



Prosthetic abutments classification Impression

Provisional restorations Definitive restorations

access

Attach the denture base to the model and

mount it on the articulator together with

its opposing model and start setting up the

teeth. Modify the teeth to allow the screws

Laboratory

Laboratory

Step 08

Setting up the teeth

Check passive fit

Step 05

Position the impression abutments on Basic® abutments in the working model and attach with impression screw manually using a surgical screwdriver. Splint the abutments with the usual technique. Send the passive fit to the clinician for intraoral verification. If the framework does not fit passively, make modifications if necessary, cut off and repeat the splinting.



Step 06

Laboratory

Record base wax-rims fabrication

Fabricate record base wax-rims , with fixing holes and send it to the clinician to determine the intermaxillary relationships and marking of reference lines.



Step 09

ŧ

Position the prosthesis and attach it to Basic® abutments with a laboratory screw using a hand screwdriver. Verify occlusion, phonetics and aesthetics. Make modifications if necessary.



Step 07

Clinical

Make intermaxillary relationship

Remove Basic® healing abutments using a surgical screwdriver. Set wax-rims to Basic® abutments using the laboratory screw. Determine facial fullness, reference planes, midline, smile line and commissures. Vertical dimension record. Relocate the healing abutments to prevent soft tissue collapse and send the records to the laboratory.



Step 10

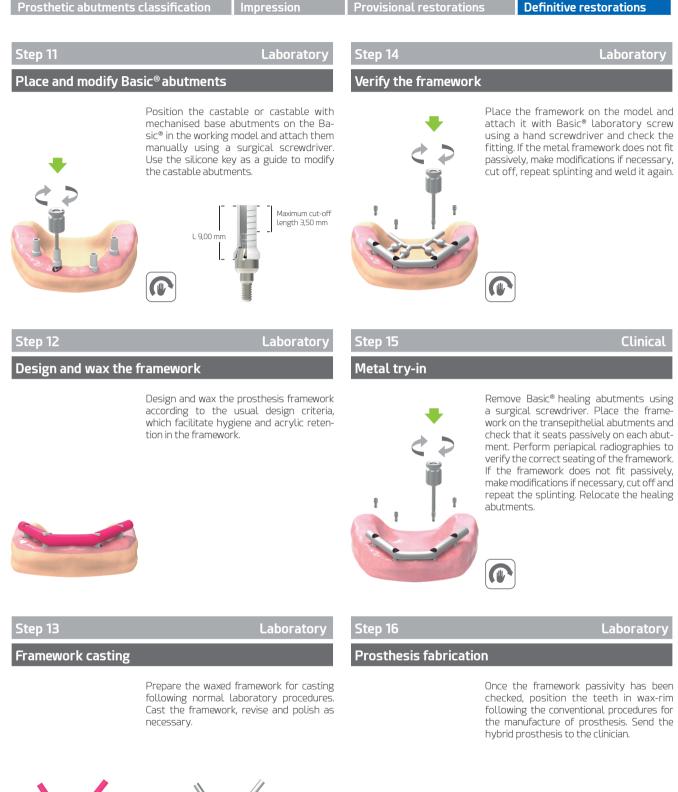
Teeth set up registration

Make a silicone key in the vestibular area of the prosthesis teeth.

Laboratory



Clinical



huw

			Zinic [®] Shorty PR	OSTHETIC PROCEDUI	RE MANUAL
Prosthetic abutments	classification	Impression	Provisional restoration	ns Definitive rest	torations
Step 17		Clinical	Step 20		Clinical
Prosthesis final inspection			Fill the screw access hole		
	surgical screwdriver on the Basic® trar and check for occlus	ing abutments using a Place the framework usepithelial abutments sion, phonetics and aes- difications if necessary. ling abutments.	Build	Place a resilient material in hole at the end of the s block with filling material will allow easy access to future. Perform a periapica verify the correct seating o	crew canal, then This procedure the screw in the al radiography to
Step 18		Laboratory			
Acrylic of the prost	nesis				
		al flasking and curing nanufacture of the final			



Step 19

Clinical

Apply final screw torque

Remove Basic® healing abutments using a surgical screwdriver. Place the framework on the Basic[®] transepithelial abutments and attach it with the clinical screw at 25 Ncm using a screwdriver tip and torque wrench (see torque table on page 50).



Important note: Do not exceed 25 Ncm to avoid screw fractures.

Prosthetic abutments classification Impression Provisional restorations Definitive restorations

Straight abutments

Step 02-A

Definitive restorations

Screwed to XDrive® transepithelial abutment



XDrive[®]

• Purpose:

XDrive® transepithelial abutments are intermediate abutments that are indicated for multiple implant and/ or angled implant restorations. The rehabilitation techniques can be applied to both straight and angled abutments and is independent of the abutment gingival height chosen by the clinician for the treatment.

The definitive restoration will be fabricated in the laboratory with castable or Co-Cr mechanised base + castable abutments that are positioned over the tran-

Important: In cases of complete restorations, it is rec-ommended to place Zinic®Shorty implants in combination with conventional length implants.

Introduction | Required Materials

- XDrive® straight abutment (Ref. XST10Z20) ROT
- XDrive® angled abutment 17º (Ref. XA210Z17) ROT XDrive® angled abutment 30º (Ref. XA210Z30) ROT
- 3 XDrive® UCLA (Ref. XRU103400) ROT 4.
- XDrive® mechanised base + castable abutment (Ref. XBRU34) ROT
- XDrive® Technical screw (Ref. XDS103410) Kiran® XDrive® clinical screw (Ref. XDS103411) XDrive® laboratory screw (Ref. XLB103410) 6.
- 8.
- XDrive® healing abutment (Ref. XH103400)
- 10. XDrive® analogue (Ref. XIA103400)
- Surgical screwdriver (Ref. LMSD) Screwdriver tip CA (Ref. MESD) 12.
- Screwdriver tip (Ref. LMSD1)

F

- 1/
- XDrive® insertion key (Ref. MABA200) Screwdriver handle (Ref. MADW10)

4

5 6



7 Procedure: The following illustrations are an example of a screwed definitive multiple restoration with XDrive® abutment on RP platform.

8 9 10

Step 01

2

Clinical

13 14

11 12

Select and place XDrive® abutments on implant

Identify the implant platform and determine the gingival height of the required XDrive® abutments. Select the abutment type to use: straight, 17° angled or 30° angled



Position the straight abutment on the insertion key and tighten with the rear screw. Screw the insertion key-abutment assembly to the implant manually. Insert torque wrench over the insertion key and apply torque at 30 Ncm (see torque table on page 50).

Clinical

Caution

Clinical















Angled abutments



Insert the angled abutment into the implant and choose the position for angle correction. Screw manually using a surgical screwdriver. Then, with a contra-angle or ratchet screwdriver tip, apply a torque of 30Ncm with the contra-angle or torque wrench, as appropriate.

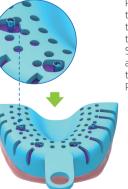




Step 03

Clinical

Impression into transepithelial abutments



Perform the implant impression following the procedure explain in the impression technique section. Take the impression of the opposing arch. Make bite registration. Send to the laboratory the impressions, analogue, impression screw, XDrive® laboratory screw and intermaxillary registration. Relocate XDrive® healing abutments.

sepithelial abutments.

Prosthetic abutments classification Impression

Laboratory

Provisional restorations Definitive restorations

Make intermaxillary relationship

Clinical

Laboratory

Working model obtaining

Step 04

Make the working models in plaster type IV (American Dental Association (ADA) No. 25 Classification with a minimum degree of expansion, high level of hardness) following the manufacturer's recommendations. Model soft tissue and articulate with bite registration according to the usual laboratory procedures.



Laboratory

Check passive fit

Step 05

Position the impression abutments on XDrive® abutments in the working model and attach with impression screw manually using a surgical screwdriver. Splint the abutments with the usual technique. Send the passive fit to the clinician for intraoral verification. If the framework does not fit passively, make the necessary modifications, cut off and repeat the splinting.



Step 06

Laborator

Record base wax-rims fabrication

Fabricate record base wax-rims , with fixing holes and send it to the clinician to determine the intermaxillary relationships and marking of reference lines.





Position the prosthesis and attach it to XDrive® abutments with a laboratory screw using a hand screwdriver. Apply manual torque. Check occlusion, phonetics and aesthetics. Make modifications if necessary.





Step 08

Step 07

Remove XDrive® healing abutments using a surgical screwdriver. Set wax-rims to XDrive[®] abutments using the laboratory screw. Determine facial fullness, reference planes, midline, smile line and commissures. Vertical dimension record. Relocate the healing abutments to prevent soft tissue collapse and send the records to the laboratory.

Setting up the teeth

Attach the denture base to the model and mount it on the articulator together with its opposing model and start setting up the teeth. Modify the teeth to allow the screws access.



Prosthetic abutments classification	Impression	Provisional restorations	5 Definitive restorations
Step 10	Laboratory	Step 13	Laboratory
Teeth set up registration		Framework casting	
Make a silicone key in the vestibular area of the prosthesis teeth.			Prepare the waxed framework for casting following normal laboratory procedures. Cast the framework, revise and polish as



necessary.

Step 11

Laboratory

Place and modify XDrive® abutments

Position the castable or castable with mechanised base abutments on the XDrive® in the working model checking the correct fit on the connection and attach them manually with a surgical screwdriver. Use the silicone key as a guide to modify the castable abutments.

Design and wax the prosthesis framework

according to the usual design criteria,

which facilitate hygiene and acrylic reten-

tion in the framework.



Step 14

Verify the framework



Place the framework on the model and attach it using XDrive® screws and check the fitting. If the fitting is not correct, section the framework, fit the sectioned parts on the abutments, splint the assem-

Laboratory

Clinical

bly and weld it again.

Step 12 Design and wax the framework

Laboratory

Step 15

Metal try-in



Remove XDrive® healing abutments using a surgical screwdriver. Place the framework on the XDrive® transepithelial abutments and check that it seats passively on each abutment. Perform periapical radiographies to verify the correct seating of the framework. If the fitting is not correct, section the framework, fit the sectioned parts on the abutments and splint the assembly. Send it to the laboratory for welding. Relocate healing abutments.





Prosthetic abutments classificat	ion Impression	Provisional restoration	s Definitive restorations	
Step 16	Laboratory	Step 19	Clinical	
Prosthesis fabrication		Apply final screw torque		
checked, p following	framework passivity has been position the teeth in wax-rim the conventional procedures anufacture of prosthesis. Send		Remove XDrive® healing abutments using a surgical screwdriver. Place the framework on the XDrive® transepithelial abutments and attach it with the clinical screw at 20	

NCm 85 20³

Important note: Do not exceed 20 Ncm to avoid screw fractures.

Ncm using a screwdriver tip and torque wrench. (see torque table on page 50).



Step 17

Prosthesis final check

Remove XDrive® healing abutments using a surgical screwdriver. Place the framework on the XDrive® transepithelial abutments and check for occlusion, phonetics and aesthetics. Make the modifications if necessary. Relocate XDrive® healing abut-

the hybrid prosthesis to the clinician.

Step 20

Clinical

Fill the screw access hole

Place a resilient material in the screw access hole at the end of the screw canal, then block with filling material. This procedure will allow easy access to the screw in the future. Perform a periapical radiography to verify the correct seating of the prosthesis.



Step 18

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Acrylic of the prosthesis

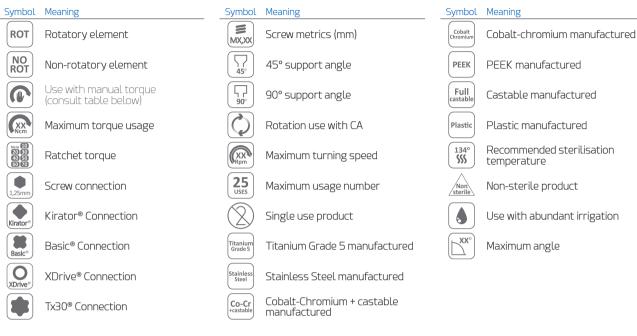
Carry out the usual flasking and curing processes for the manufacture of the final prosthesis.

Laboratory



How to interpret the symbology of this catalogue

Symbology



Torque table for abutments

Element/Abutment	Instrument/Tool	Torque
Cover screws/healing abutments	Hexagonal screwdriver 1,25mm	Manual
Impression abutments screw	Hexagonal screwdriver 1,25mm	Manual
Laboratory screws	Hexagonal screwdriver 1,25mm	10 Ncm
Clinical screws direct to implant	Hexagonal screwdriver 1,25mm	30 Ncm
Kiran® clinical screws direct to implant	Hexagonal screwdriver 1,25mm	30 Ncm
Basic®/XDrive® abutments	Insertion keys: MABA100/MABA200	30 Ncm
Clinical screws on Basic®	Hexagonal screwdriver 1,25mm	25 Ncm
Kiran® clinical screws on Basic®	Hexagonal screwdriver 1,25mm	25 Ncm
Clinical screws on XDrive®	Hexagonal screwdriver 1,25mm	20 Ncm
Kiran® clinical screws on XDrive®	Hexagonal screwdriver 1,25mm	20 Ncm
ZiaCam® Scanbody + screw	Hexagonal screwdriver 1,25mm	Manual
Tx30® abutment/screw (Variable Rotation)	Tx30® Torx screwdriver	30 Ncm

• For immediate loading: DO NOT torque manually, block to final torque.

• When using a screwdriver or adapter for contra-angle (CA), DO NOT exceed a maximum speed of 25 Rpm.

Attention: exceeding the recommended torque for screws and abutments endangers the prosthetic restoration and may result in damage to the implant structure. In this case, ZIACOM® product guarantee will be cancelled.

Instructions for cleaning and disinfection of: instruments and boxes (surgical and prosthetic)

Protocol to be carried out by qualified personnel for the preparation of instruments and surgical/prosthetic boxes for use.

ATTENTION: the instruments and surgical/prosthetic boxes must be cleaned and disinfected after each use and sterilised before their next use. Pay attention to sharp elements, the use of gloves is recommended to avoid accidents during handling when following these instructions. Do not clean or disinfect instruments of different materials together. Cleaning and disinfection of instruments

3 - Disinfection

IMPORTANT.

and times.

Immerse the instruments in a disinfectant

explicitly indicated for dental instruments. • For disinfection with ultrasonic equipment

immerse the material in the ultrasonic bath.

 Rinse with plenty of deionised water to remove any residues of the disinfectant.

Drv the material with filtered compressed air.

 Follow the instructions of the disinfectant manufacturer to determine concentrations

Follow the instructions of the manufacturer of the ultrasound equipment to determine

1-Disassemblv

Disassemble the instruments that require it such as manual ratchets (see diagram below), drills and drill stops...
Disassemble the surgical/prosthetic boxes into their components for proper cleaning.

 Uncouple the micro-implants insertion key from the handle (see diagram below).

2 - Cleaning

- Immerse the instruments in a solution of a cleaning agent suitable for dental instruments to facilitate the removal of adhering biological debris.
- Remove biological residue manually with a soft brush and pH-neutral detergent.
 Rinse with plenty of water.
- Perform a final rinse with deionised water.
 Always use pH-neutral detergents and non-abrasive tools to clean surgical/prosthetic boxes so as not to damage the surfaces of the box.

4 - Inspection

- Check that the instruments are perfectly clean, otherwise repeat the above cleaning and disinfection steps.
- Discard instruments that show damage and replace them for the next surgery.
 Verify that the instruments and surgical/prosthetic boxes are perfectly dry before assembly
- thetic boxes are perfectly dry before assembly and sterilisation.
- temperature, concentration and times Disassembly of ZIACOM[®] ratchets 3 4 2 Assembly of ZIACOM[®] ratchets 4 Disassembly of DSQ[®] micro-implant insertion handle Pull back the grev metal 3 Release the grey metal 4 Remove the insertion key ring to remov ring to leave it in its initial position from the insertion handle Assembly of DSQ[®] micro-implant insertion handle 1 3 Release the grey metal ring after introducing the insertion key Pull back the grey metal Insert the insertion key into ring before introducing the insertion key the insertion handle

Sterilisation instructions for: orthodontic micro-implants, abutments, instruments and boxes (surgical and prosthetic)

Protocol to be carried out by qualified personnel for the sterilisation of micro-implants, abutments, instruments and surgical/prosthetic boxes for use.

ATTENTION: all micro-implants, abutments, instruments and surgical/prosthetic boxes are supplied NON-STERILE. They should be sterilised as directed before the first clinical use. They must be removed from their original packaging for sterilisation prior to first clinical use. Surgical/prosthetic instruments and boxes should be cleaned and disinfected after each use and sterilised prior to use. Do not sterilise instruments of different materials together, unless the corresponding surgical/prosthetic box is used correctly.

Steam autoclave sterilisation: sterilisation of micro-implants, abutments, instruments and boxes

micro-implants, abutments, instruments and boxes

- Insert the material individually into sterilisation bags and seal the bags.
 For joint sterilisation: assemble the instruments in their corresponding surgical bay insert the bay in a sterilisation bag
- corresponding surgical box, insert the box in a sterilisation bag and seal the bag.
 Place the bags to be sterilised in the autoclave.
- Sterilise in steam autoclave at 134°C/273°F (max. 137°C/276°F),
- 5-steruise in steam autoclave at 194°02/3* (max.13*02/6*), for 4 min (minimum) and 2 atm of pressure.
 Only for USA: the validated and recommended sterilisation cycle is in a steam and gravity autoclave at 132°C/270°F, minimum 15 minutes and drying time 15-30 minutes.

IMPORTANT:

- Make sure that the drying phase is completed to prevent the products from coming out wet..
- Check the sterilisation equipment if the sterilisation material or bags are wet at the end of the sterilisation.
- Carry out the maintenance of the autoclave with the established periodicity and the necessary actions, following the manufacturer's instructions.

Conservation of ZIACOM[®] products

(micro-implants, abutments, instruments and boxes)

- Keep the products in the original ZIACOM[®] packaging in a dry and clean environment until use.
 After sterilisation, keep the products (micro-implants, instruments,
- abutments and surgical boxes) in their sealed sterilisation bags and in a dry and clean environment.
- Never exceed the expiration dates determined by the manufacturer of the sterilisation bags.

IMPORTANT:

- Follow the instructions of the manufacturer of the sterilisation bags

Note. For the most up-to-date version of the cleaning, disinfection and sterilisation instructions, please visit our website www.ziacom.es

General recommendations

- Never use damaged or dirty material. Never reuse products indicated for a single use, the user is responsible for the correct follow up of the instructions described in this document.
- Always wear gloves when cleaning the material.
 Follow the safety instructions given by the manufacturer of the disinfection agent.
- Sterility cannot be guaranteed if the sterilisation bag is open, damaged or wet.
- Respect all phases of the steriliser. If the sterilisation material or bags have water or moisture residues, check the autoclave and dry the bags.
- Carry out the maintenance of the autoclave according to its manufacturer, with the established periodicity.
- The sterilisation, cleaning and disinfection processes progressively deteriorate the instruments. Inspect the instruments carefully for signs of deterioration.
- Ziacom Medical SLU recommends following these instructions to avoid impairing the purpose and safety of its products. If alternative procedures are used, it is the responsibility of the user to ensure that the chosen cleaning, disinfection and sterilisation procedure achieves the desired results without affecting the products.





Consult the general sales conditions updated in our web www.ziacom.es

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Important

- For the most up-to-date version of the catalogues, please visit our website www.ziacom.es
- Check the availability of each product by country.



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